

## State of West Virginia Division of Environmental Protection Section of Oil and Gas

Reviewed	1146
Recorded	- NOTE AND THE PROPERTY OF THE

		Well Operator's P	Report of Well			A the comprision of the Company of Emphasis and the company of the			
Farm name:	: COLE & CRAN	E REAL ESTATE	Operator V	Operator Well No.: A-15 S-137871					
LOCATION:	Elevation:	1131.14	Quadrangle	Quadrangle: BARNABUS					
	Latitude:	ISLAND CREEK 13200 Feet South of 1800 Feet West of 8	County: l 37 Deg. 45 Mi 2 Deg. 0 Mi	in. O Sec.					
Company:	P. O. BOX 3	LORATION, INC. 91, A1-6 41114-0391	Casing &	Used in Drilling	Left in Well	Cement Fill_Up			
Agent:	B. E. WIDEN	ER	Tubing		-	Cu. Ft.			
Inspector:	OFIE HELMIC	K	Size						
Permit Iss		03/13/92	20"	52'	52'	Driven			
Well work Well work Verbal Plu	Commenced: Completed: ugging:	05/03/92 06/25/92	16"	76'	76'	88			
Rotary <u>X</u> Total Dept	granted on: Cable ch (feet)	5086	11 3/4"	400'	400'	267			
_Damp 500'	er depths (ft) depths (ft)		8 5/8"	1769'	1769'	628			
None note Is coal be	ed eing mined in	area (Y/N)? <u>N</u> O, open mine @	5 1/2"	5048'	5048'	644			
OPEN FLOW	DATA		1.9" @ 4 1.9" @ 2	936' w/ R-4	l pkr 0 260	56'			
Producing formation Devonian Shale/Berea Pay zone depth (ft) 3176-4975  Gas: Initial open flow0- MCF/d Oil: Initial open flow Bbl/d Final open flow+1104 MCF/d Final open flow Bbl/d Time of open flow between initial and final tests 3 Hours Static rock pressure780# psig (surface pressure) after 72 Hours									
Seco Gas: Stat	nd producing Initial open Final open Time of open ic rock Press	d producing formation <u>Big Lime</u> Pay zone depth (ft) <u>2527-2598</u> Initial open flow <u>315</u> MCF/d Oil: Initial open flow <u></u> Bbl/d Final open flow <u>51333</u> MCF/d Final open flow <u></u> Bbl/d Time of open flow between initial and final tests <u>3</u> Hours c rock Pressure <u>575#</u> psig (surface pressure) after <u>72</u> Hours							

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1. DETAILS OF PERFORATED INTERVALS, FRACTURING OF STIMULATING, PHYSICAL CHANGE, ETC. 2.) THE WELL LOG WHICH IS A SYSTEMATIC DETIALED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For:	ASHLAND EXPLORATION,	INC			1. 2.4	1232
			James L.	Stephens, E	nq.	Tech.
	Date:	7/13/92				

Formation on Rock Type	<u>TOP</u>	BASE
Breathitt fm. Lee fm. Pennington fm. U. Maxton 1946-1976 M. Maxton 2036-2133 L. Maxton 2242-2300	0 772 1649	772 1649 2300
Little Lime Big Lime Borden formation Sunbury Shale Berea Devonian Shale Onondaga	2300 2357 2638 3139 3170 3189 5072	2357 2638 3139 3170 3189 5072 TD
DTD 5086		

LTD 5088

16" and 8%" cemented to surface on primary job.

11%" cemented to surface by grouting 15 sx @ 8%" casing point.

## Well Treatment

Perf Rhinestreet 19H/4744-4975.  $N_2$  frac using 500 gal  $7\frac{1}{2}\%$  fe acid, 810,000 scf  $N_2$  @ 99,300 scf/min. BD @ 3267#, ATP 4049#, MTP 4062# and ISIP 2970#.

Perf Huron 20H/4194-4512.  $N_2$  frac using 500 gal  $7\frac{1}{2}\%$  fe acid, 807,000 scf  $N_2$  @ 103,000 scf/min. BD @ 2885#, ATP 3884#, MTP 4201# and ISIP 2375#.

Perf U. Dev. Shale and Berea 19H/3176-3496.  $N_2$  frac using 500 gal  $7\frac{1}{2}\%$  fe acid, 812,000 scf  $N_2$  @ 106,000 scf/min. BD @ 3977#, ATP 3525#, MTP 3997# and ISIP 2081#.

Perf Big Lime 14H/2527-2598. Acidize Big Lime using 1000 gal 15% fe acid, foamed @ 60 quality using 101,000 scf  $N_2$  @ 3800 scf/min. BD 1610#, ATP 1850#, MTP 2420# and ISIP 2080#.

FORM	BLME 5B		STATE	of west v	VIRGINTA	97-04	Page 1 of 1
	DEPT. OF ENERGY	<i>.</i>	NT OF ENE	RGY, DIVI	SION OF OII APPLICATION	Expu	3113/92
2)	Well Opera Operator's	Well Num	Cole &	Crane Rea	lon, Inc. <u>2</u> l Estate Tr l #137871	ust	230 ation: <u>1131.1</u>
4)	Well type:		.l/ : Gas: Pr			round Stora	age/ low_X/
5)	Proposed T	arget For	mation(s)		Devonian Sh		
6)	Proposed T	otal Dept	h:	5111′KB	feet		
7)				15471		'KB (Map W	_ /
8)	Approximat	e salt wa	ter depth	ns: Top 5	596'KB (Map		ned Out
9)	Approximat	e coal se	am depths	s: Lower (	Cedar Grove	Seam - Ele	ev. 1021/
10)	Does land	contain c	oal seams	tributar	y to active	/97'-/99' e mine? Y	/3/-/34 es/ No_X/
11)	Proposed W	ell Work:	Drill a	and Stimu]	late New We	11	
12) CASING AND TUBING PROGRAM							
	TYPE	SP	ECIFICATI	ONS	FOOTAGE	INTERVALS	CEMENT
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu.ft.)
Con	ductor	16	LS	36.91	60	50 ) (	CTS
Fre	sh Water				·		38CSR1811.3 38CSR1811.2.2
Coa	1	11 3/4	H40	42.0	350	350	CTS
Int	ermediate	8 5/8	J55	24.0	2305	2305	CTS
Pro	duction	5 1/2	J55	15.5	5111	5111	AS NEEDED
Tub	ing	1.9	J55	2.76	***	5061 /	SIPHON
Line	ora					(	26/201111

Tubing 1.9 J55 2.76 - 5061 SIPHON

Liners : Kind

Sizes

Depths set

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP

Plat WW-9 WW-2B Bond Sureh Blanket Agent

(Type)

Page 1 of 2 Form WW2-A (09/87)



1) Date: February 25, 1992
2) Operator's well number Serial #137871
Cole & Crane Real Estate Trust #A-15
3) API Well No: 47 - 045 - 1183
State - County - Permit

## STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

## NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface (	Owner(s) to be served: Cole & Crane Real Estate Trust	5) (a) Coal Operator:	
	Address	Suite 215 Frederick Bldg.	Name w-r Coal Company	
		Huntington, WV 25701	Address P.O. Box-570	
	(b) Name	muncing con, wv 25/01	Omar, WV 25638 (b) Coal Owner(s) with Declaration	
	Address			
			Name Same as No. 4(a) Address	
	(c) Name		Address	
	Address		Namo	
			NameAddress	
			Address	
6)	Inspector	Ofie Helmick	(c) Coal Lessee with Declaration	
/	Address	P.O. Box 218		
		Fanrock, WV 24834	Name Same as No. 5(a)	
	Telephone	= (304) - <u>732-9135</u>	Address	
	rerebuoue	(304)732-9133		
		TO TUE DEDCOMICS MAMER ADD	NITTO MARKET STORE TO MAKE THE MAKE THE STORE	
		TO THE PERSON(S) NAMED ABO	VE TAKE NOTICE THAT:	
	Included	is the lease or lease an		
contr	acte hy v	thich I hold the might to	other continuing contract or	
X	Included	which I hold the right to e	xtract oil and gas OR	
Cocti	included	is the information require	d by Chapter 22B, Article 1,	
Secri		of the Code of West Virgini	a (see page 2)	
T 1	r certiry	that as required under Ch	apter 22B of the West Virginia Cod	e
ı nav	e served	CODIES of this notice and	application a location mlat and	
accom	hanlind c	ocuments pages I through	2 on the above named parties by:	
	Pers	onal Service (Affidavit at	tached)	
	X Cert	ified Mail (Postmarked pos	tal receipt attached)	
	Publ	ication (Notice of Publica	tion attached)	
	I have re	ad and understand Chapter	22B and 38 CSR 11-18, and I agree	
to th	e terms a	and conditions of any permi	t issued under this application.	
	I certify	under penalty of law that	I have personally examined and am	
famil	iar with	the information submitted	on this application form and all	
attac	hments. a	nd that based on my inquir	y of those individuals immediately	
respo	nsible fo	or obtaining the information	y of those individuals immediately	
is tr	ne sconk	ate, and complete.	n, I believe that the information	
	T am array	ate, and complete.		
intor	r am awar	e that there are significa	nt penalties for submitting false	
THEOL	mation, 1	ncluding the possibility o	f fine and imprisonment.	
			Ashland Exploration, Inc.	
		By: W. Mark Park	**************************************	
		Its: Operation		
		Address P.O. B	ox 391	
			d. KY 41114	
٥.,		Telephone <u>606-</u>	329-5989	
Subsc	ribed and	sworn before me this 25th	day of February , 1992	
	11: 6	16 11/-		-
	Mery	M. Nonla	Notary Public	С
My co	mmission	expires November 23, 1994	4	
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